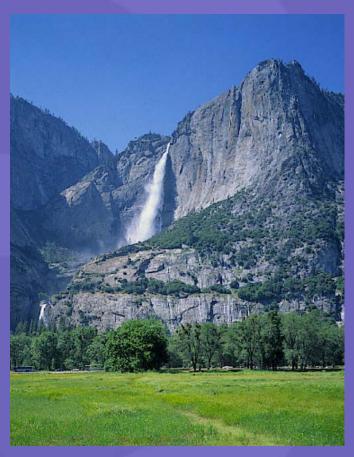
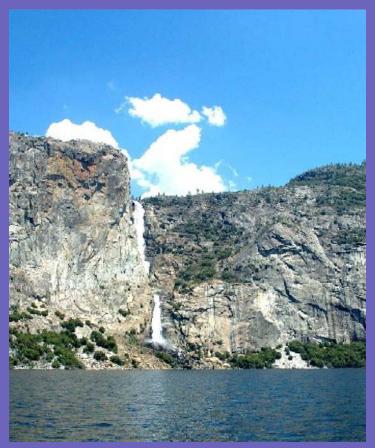


"A wonderfully exact counterpart"



Yosemite Falls



Wapama Falls



Tuolumne River Hetch Hetchy Valley 1908

Merced River Yosemite Valley 2004



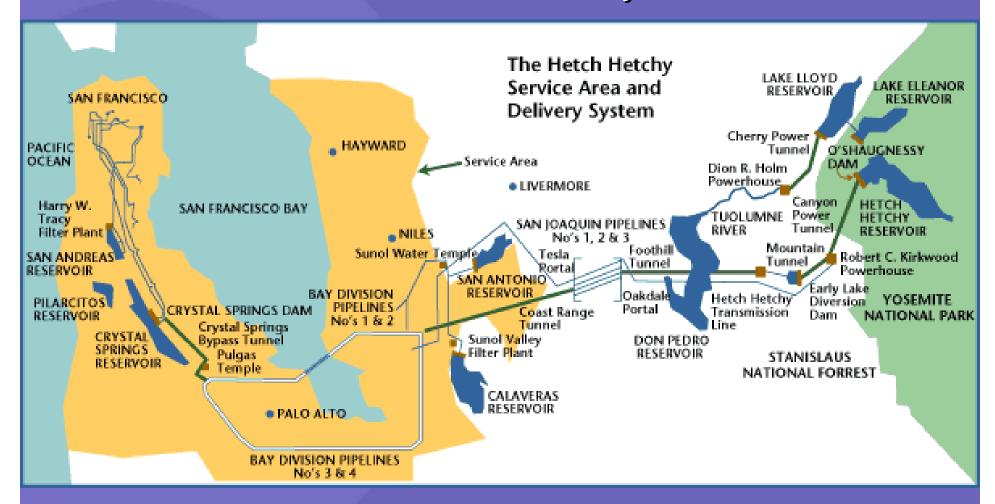








SFPUC serves 2.4 million Bay Area residents



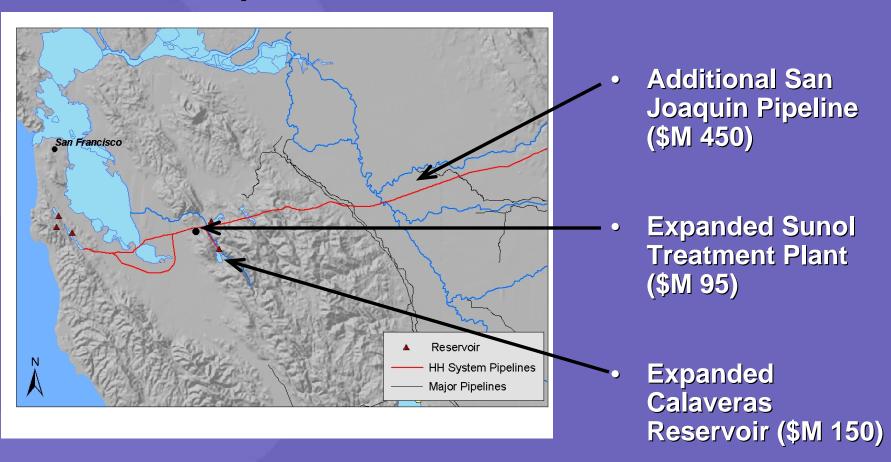
Questions about restoration

- Why now?
- Is it technically feasible?
 - Where will we get our water?
 - Will it be safe to drink?
 - How can power be replaced?
- Are there legal/institutional barriers?
- How much will it cost?

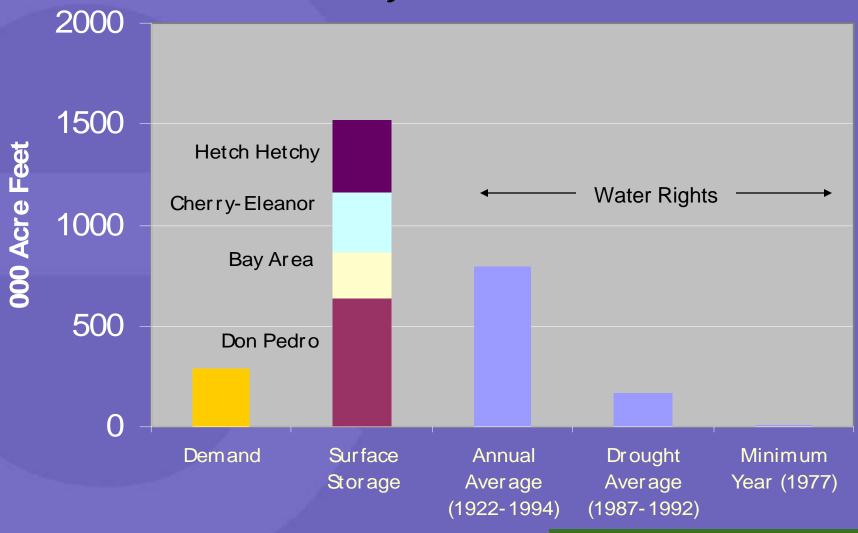
An Environmental Defense Study with expert assistance

- Engineering Schlumberger Water Services, Inc.
- Water Quality EOA, Inc.
- Legal Issues Somach, Simmons & Dunn

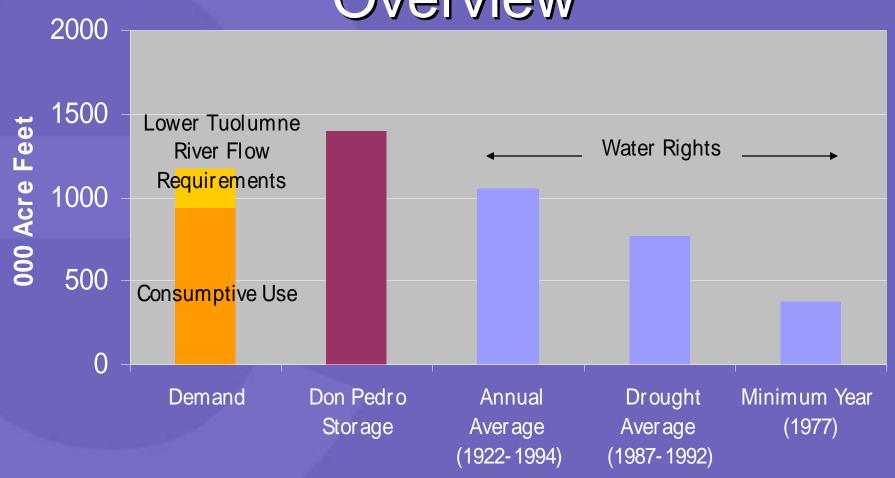
Capital Improvement Program Expansion Elements



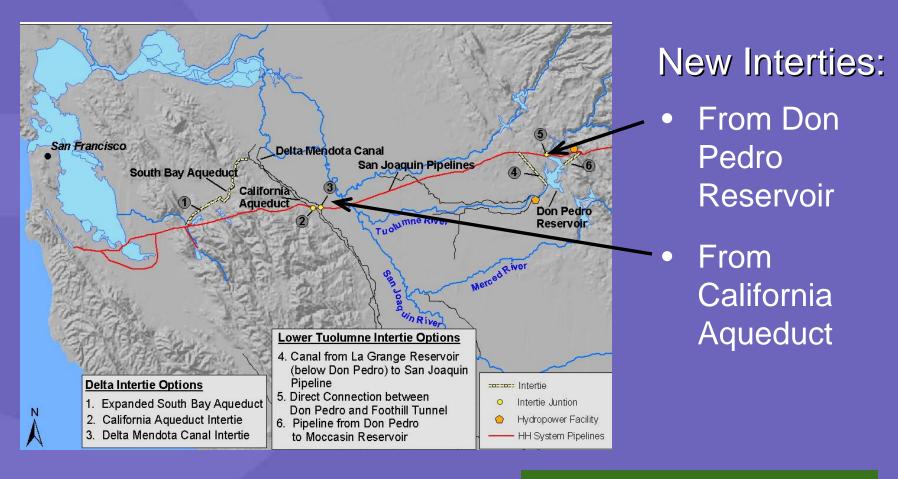
SFPUC System Overview



TID and MID System Overview

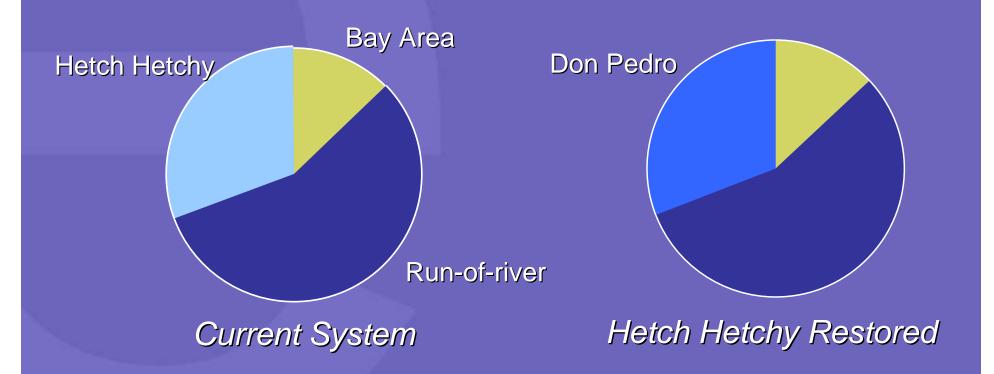


Meeting Water Supply Needs Without Hetch Hetchy Reservoir

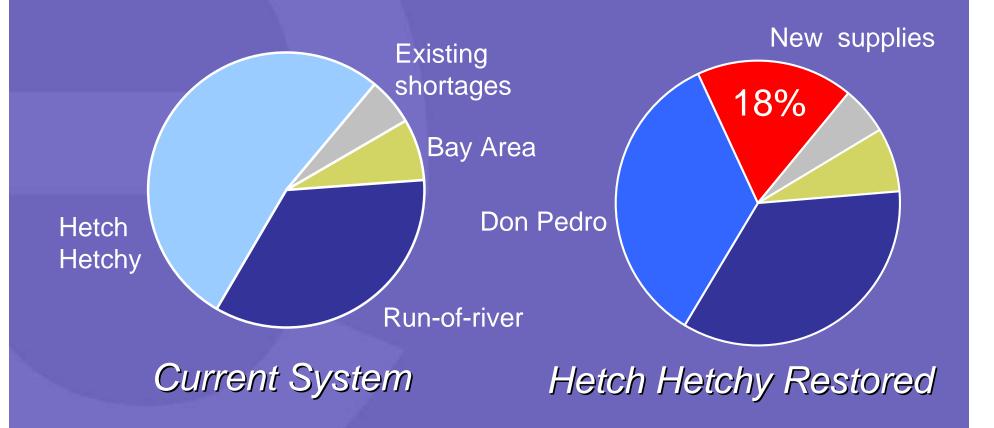


Meeting current water needs

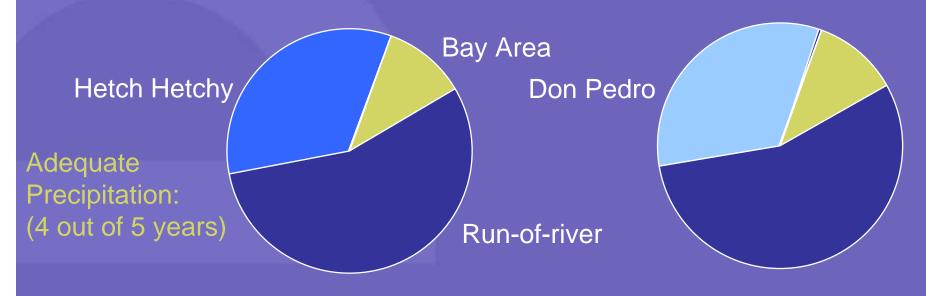
Adequate Precipitation: 4 out of 5 years



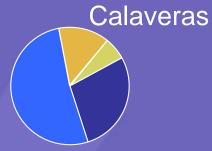
Assuring reliable supplies during droughts Critically Dry Years: 1 out of 5 years



Accommodating Projected Growth



Critically Dry: (1 out 5 years)



Future System (w/ CIP)



Hetch Hetchy Restored

New Dry Year Supply Sources

- Groundwater banking
- Water transfers
- New local storage



Existing Sources 96%



SFPUC Hydropower

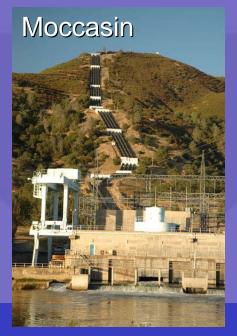
California

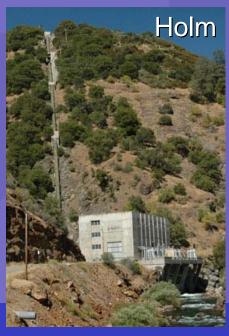
0.6% of supply

- San Francisco
- Turlock ID
- Modesto ID

- 15% of supply
- 15% of supply
- 20% of supply



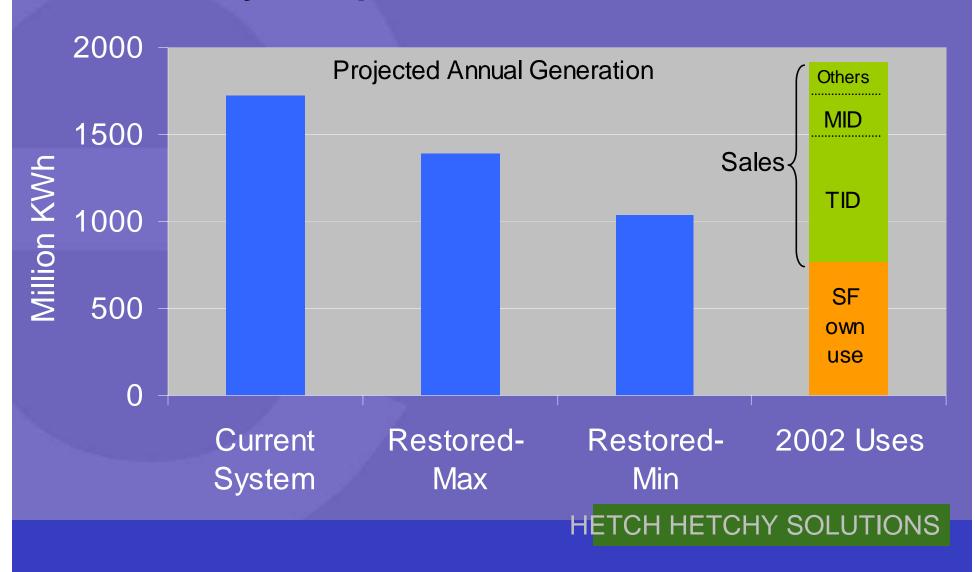




SFPUC Hydro Facilities



Hydropower falls 20-40%



Power Alternatives

- Energy efficiency
- Dynamic pricing
- Renewable energy
- Natural gas



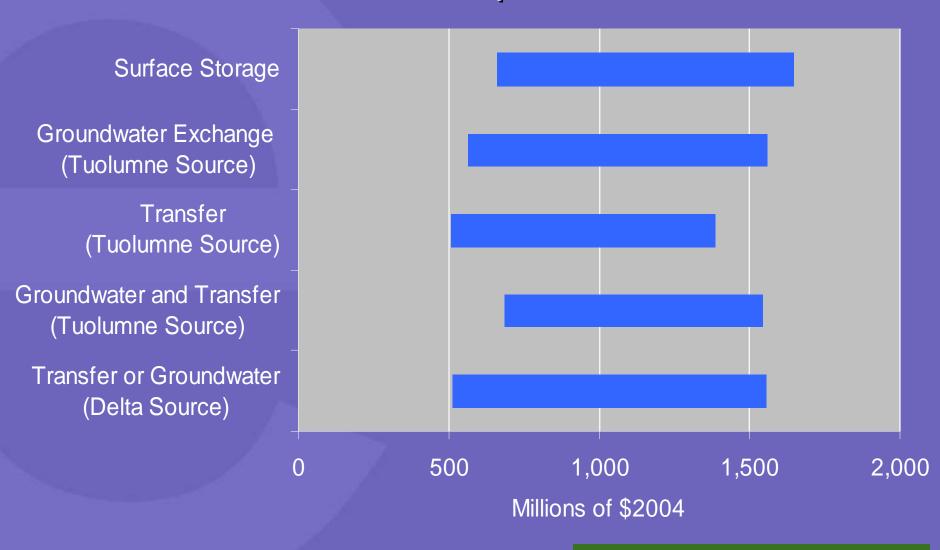
California has built over a dozen base-load power plants since 2001



Restoring Hetch Hetchy is equivalent to 40-90MW



Water and Power Replacement Costs



Key Findings

- Water
 - Same source for almost all supplies
 - Some new supplies needed in dry years (4% avg.)
 - Same or better quality with filtration
- Power
 - 20-40% reduction in generation
 - Abundant green alternatives
- Cost: \$.5 1.6 billion (NPV)

Real choices for the 21st century

